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(54)**PRODUCTION OF CARBON FOAM**

(57)Abstract:

PURPOSE: To obtain inexpensively carbon foam, by packing caking coal or pitch having a volatile content in a limited range to a mold, calcining the caking coal or pitch at a temperature not to make it into a liquid state so that bulk is made, and calcining it further at a high temperature.

CONSTITUTION: One or more raw materials selected from caking coal and pitch having 15W30wt% volatile content of content are packed into a mold. The caking coal or the pitch is calcined at 380W500°C, made into

bulk, the bulk is calcined again at 750°C high temperature, sufficiently contracted, the atomic arrangement of carbon constituting the bulk is made into a firm three- dimensional crosslinking, and strength is improved, to give the aimed carbon foam. Consequently the high-quality carbon foam can be produced by a simple production process from the caking coal or the pitch which is inexpensively obtainable in a large amount. The obtained carbon foam is used as a high- temperature heat-insulating material or a corrosion-resistant filter medium for liquid.

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